

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P556541

Luminaire Tested: **FUSL-12-4-LD4-1LO-40-UNV-80-96-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P556541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-4-LD4-1LO-40-UNV-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

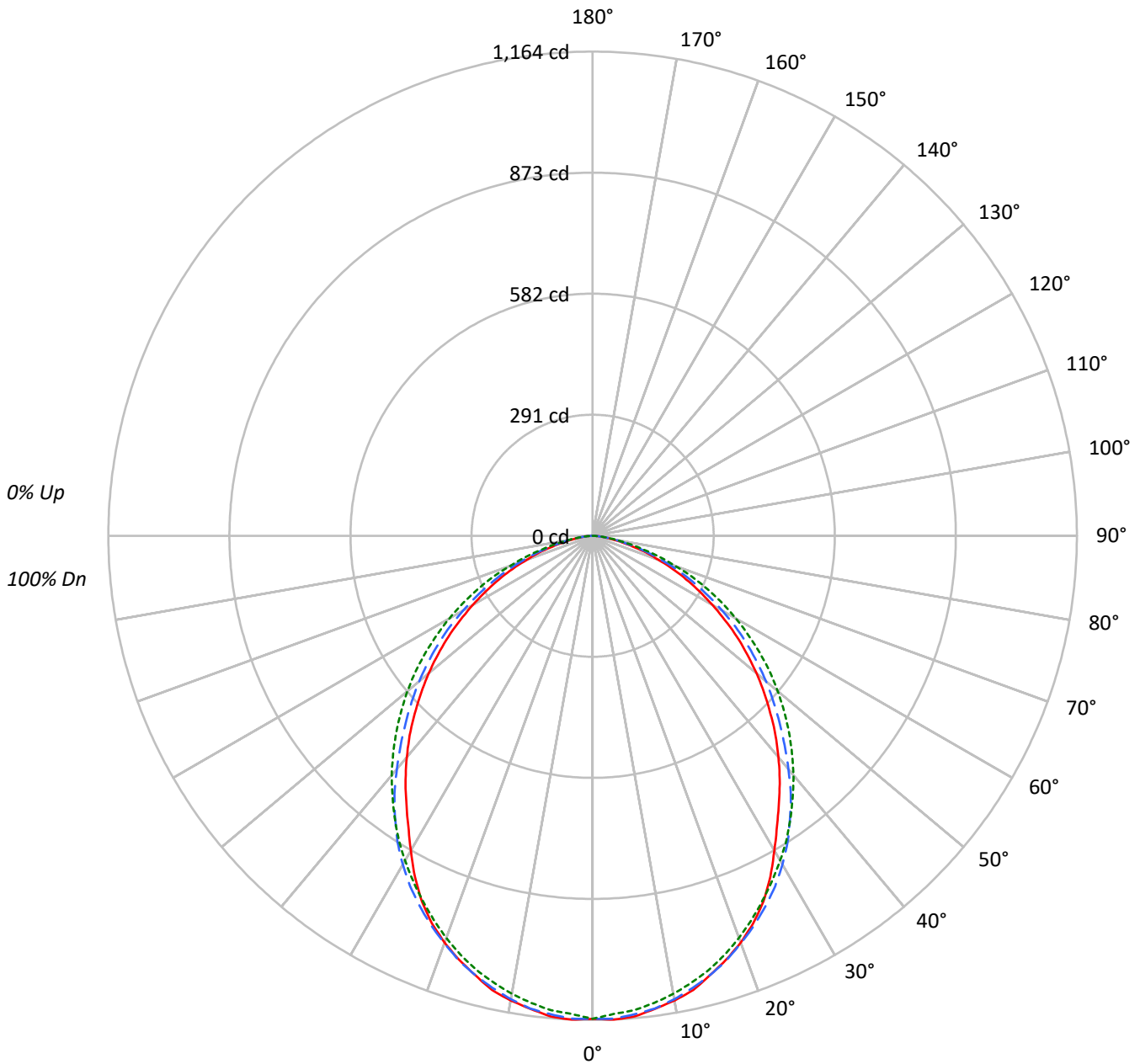
Lumens per Lamp: N/A
Luminaire Lumens: 2685.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3125	3125	3125
5°	3133	3120	3093
10°	3100	3091	3056
15°	3045	3045	3010
20°	2980	2984	2946
25°	2882	2918	2871
30°	2714	2836	2802
35°	2565	2718	2723
40°	2440	2571	2639
45°	2300	2416	2540
50°	2153	2277	2431
55°	1986	2118	2300
60°	1788	1933	2139
65°	1579	1719	1946
70°	1316	1463	1653
75°	1035	1169	1294
80°	739	823	913
85°	482	482	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	4.1
10°-20°	307.1	11.4
20°-30°	448.8	16.7
30°-40°	509.5	19.0
40°-50°	491.8	18.3
50°-60°	405.7	15.1
60°-70°	270.2	10.1
70°-80°	120.9	4.5
80°-90°	21.6	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	865.3	32.2
0°-40°	1374.8	51.2
0°-60°	2272.3	84.6
0°-90°	2685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1160	1159	1155	1149	1145	110
15°	1093	1096	1093	1088	1080	308
25°	971	978	983	976	967	445
35°	781	791	828	832	829	489
45°	604	615	635	664	667	466
55°	423	430	452	476	490	378
65°	248	255	270	289	306	246
75°	100	105	112	118	124	109
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.2	1161.2	1161.2	1161.2	1161.2
2.5°	1164.3	1164.8	1162.1	1154.9	1150.5
5°	1159.9	1159.4	1154.9	1148.7	1145.1
7.5°	1146.9	1147.8	1146.5	1137.5	1132.6
10°	1134.4	1134.9	1131.3	1124.2	1118.4
12.5°	1118.4	1117.9	1113.0	1109.4	1100.1
15°	1092.9	1095.6	1092.9	1088.0	1080.4
17.5°	1068.4	1068.4	1070.2	1061.7	1055.9
20°	1040.7	1042.1	1042.1	1035.4	1028.7
22.5°	1008.6	1012.6	1014.0	1006.8	998.8
25°	970.7	978.3	982.8	975.6	967.1
27.5°	924.8	936.4	949.7	944.4	935.0
30°	873.5	890.4	912.7	908.3	901.6
32.5°	824.8	841.8	872.6	870.8	867.2
35°	780.7	791.4	827.5	832.0	828.9
37.5°	738.7	748.6	782.5	792.7	790.0
40°	694.6	705.3	732.0	750.3	751.2
42.5°	650.9	661.1	683.0	709.3	709.3
45°	604.5	614.7	634.8	663.8	667.4
47.5°	559.0	569.7	589.3	618.3	624.1
50°	514.4	524.2	543.8	571.9	580.8
52.5°	468.0	478.7	497.8	523.7	536.7
55°	423.3	430.5	451.5	476.4	490.3
57.5°	377.0	383.6	407.3	428.7	443.0
60°	332.3	340.8	359.1	381.0	397.5
62.5°	289.5	298.4	314.1	333.2	352.0
65°	248.0	254.7	269.9	289.1	305.6
67.5°	207.9	213.7	228.8	242.2	259.6
70°	167.3	174.9	186.0	199.0	210.1
72.5°	134.7	137.8	147.2	156.6	168.2
75°	99.5	104.8	112.4	117.8	124.5
77.5°	71.4	74.5	79.0	83.4	89.7
80°	47.7	49.1	53.1	54.0	58.9
82.5°	29.0	29.9	30.8	31.2	33.0
85°	15.6	15.6	15.6	14.7	14.7
87.5°	8.9	8.9	7.6	6.2	4.5
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)